

**Robotic Welding Cell Information Needed**

Dear All,

Thank you very much for choosing Suzhou GENE Automation robotic cells.

To recommend suitable robotic welding cell, kindly help to provide following information before quotation and detailed project design.

Item	Details	Note
Material Type		Exact material No. helps a lot
Workpiece thickness	mm < thickness < mm	
If any coating layer, pls specify		
Welding workpiece 3D file for fixture	STEP format is preferable	For fixture design and automatic feeding customization requirement.
<b>Processing Requires</b>		
Welding Seam Surface Requirements	Normal surface or special require like fish-scale effect	
Welding seam test	Naked eyes test, chemical test, laser beam test, cutting edge defection or others	
Protection Gas Type	CO2, Ar, mixer of CO2 and Ar, or others	

1. To make sure the consistency of welding workpiece, fixture is necessary for robot welding. If client could not provide, we'd be glad to help.
2. Material loading accuracy requirement:
  - plate thickness <6mm, repeat accuracy 25% \*plate thickness
  - e.g. 3mm plate, loading accuracy is  $\pm 0.75$ mm
  - 2mm plate, loading accuracy is  $\pm 0.5$ mm
  - plate thickness  $\geq 6$ mm, loading accuracy is below  $\pm 1.5$ mm
3. 3D documents (step format, dwg are preferable) of welding workpieces are necessary to know exact welding position to confirm if extra axis /fixture is needed or not.

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